

JUN 2005

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2004年6月24日 (24.06.2004)

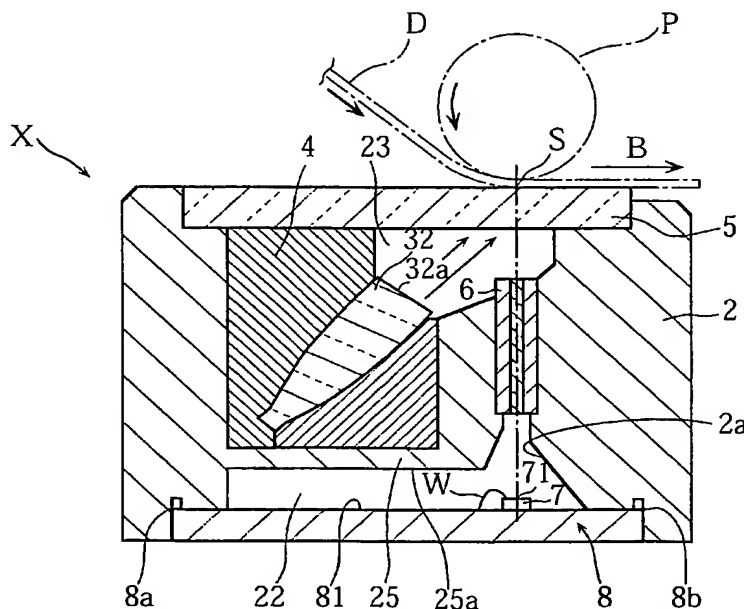
PCT

(10) 国際公開番号
WO 2004/054231 A1

- (51) 国際特許分類: H04N 1/028 (72) 発明者; および
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- (21) 国際出願番号: PCT/JP2003/015750
- (22) 国際出願日: 2003年12月9日 (09.12.2003)
- (25) 国際出願の言語: 日本語 (74) 代理人: 吉田 稔, 外 (YOSHIDA, Minoru et al.); 〒543-0014 大阪府 大阪市 天王寺区玉造元町2番 32-1301 Osaka (JP).
- (26) 国際公開の言語: 日本語 (81) 指定国 (国内): CN, US.
- (30) 優先権データ: 特願2002-356958 2002年12月9日 (09.12.2002) JP 添付公開書類:
— 国際調査報告書
- (71) 出願人 (米国を除く全ての指定国について): ローム株式会社 (ROHM CO., LTD.) [JP/JP]; 〒615-8585 京都府 京都市 右京区西院溝崎町2番地 Kyoto (JP). 2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: IMAGE READING APPARATUS AND CIRCUIT BOARD UNIT USED THEREFOR

(54) 発明の名称: 画像読み取り装置およびこれに用いられる回路ボードユニット



(57) Abstract: An image reading apparatus (X) includes a light source, a case (2) containing the light source, and a board (8) fixed to the case. On the board (8), there are provided a plurality of sensor IC chips (7) for detecting a light from an image read region. The sensor IC chips (7) are located closer to a second side edge (8b) of the board (8) than to a first side edge (8a) thereof. Also on the board (8), there is formed a predetermined wiring pattern. The sensor IC chips (7) are electrically connected to the wiring pattern by means of wires (W), which extend from the upper surfaces of the sensor IC chips (7) toward the first side edge (8a) of the board and are connected to the wiring pattern.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15750

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04N1/028

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04N1/028

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2001-358906 A (Nippon Sheet Glass Co., Ltd.), 26 December, 2001 (26.12.01), Full text & TW 512624 B & US 2002-3580 A1	1-5, 9 6-8, 10
Y	JP 11-136438 A (Canon Inc.), 21 May, 1999 (21.05.99), Full text & TW 411696 B & CN 1232342 A & SG 74091 A	6-8, 10
A	JP 2000-125080 A (Rohm Co., Ltd.), 28 April, 2000 (28.04.00), Full text (Family: none)	1-10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
06 January, 2004 (06.01.04)Date of mailing of the international search report
20 January, 2004 (20.01.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15750

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-51189 A (Nippon Sheet Glass Co., Ltd.), 15 February, 2002 (15.02.02), Full text & US 2002-17600 A1	1-10
A	JP 2001-53930 A (Mitsubishi Electric Corp.), 23 February, 2001 (23.02.01), Full text (Family: none)	1-10